

In the claims:

The following listing of claims replaces all prior versions of listings of claims in the application:

Claims 1-10 (cancelled).

Claim 11 (previously presented): An article resistant to fire and the heat of fire, the article comprising:

a first sheet of co-extruded thermoformable plastic, comprising a surface layer of an intumescent polyolefin composition resistant to fire and a substrate layer of a polyolefin resin, molded over a first mold to provide a first member;

a second sheet as in the first sheet molded over a second mold to provide a second member;

a third member of molded plastic composed of polyolefin resin comprising an array of upward extending ribs, an array of downward extending channels and between the ribs and channels hollow areas providing dead air space;

the third member being compressed between the first and second sheets to provide a rigid unitary structure wherein upper surfaces of the ribs bond to the substrate layer of the first sheet and lower surfaces of the channels bond to the substrate layer of the second sheet;

the surface layers of the intumescent polyolefin compositions of the first and second sheets being exteriorly

visible preventing the substrate layers from supporting a flame
22 upon exposure to fire; and

the surface layers of the intumescent polyolefin
24 compositions of the first and second sheets in combination with
the dead air space insulating the third member, the insulated
26 third member resisting the heat of the fire to remain rigid.

Claim 12 (previously presented): An article as in claim 11
2 wherein the third member includes additives imparting high
temperature strength.

Claim 13 (previously presented): An article as in claim 11
2 wherein the article is a material handling apparatus.

Claim 14 (previously presented): An article as in claim 11
2 comprising a wireless communications device, the device being
adapted to transmit an emergency signal to a remote monitoring
4 station when said article is exposed to fire or the heat of fire.

Claim 15 (previously presented): A material handling apparatus
2 comprising:

an electronic device, the electronic device comprising at
4 least a wireless communicator interfacing with a remote station,
thermographic instrumentation developed to monitor external
6 temperature, and circuitry integrating the communicator to the
instrumentation;

8 the thermographic instrumentation responding to variation in
external temperature indicative of a fire by actuating circuitry,
10 the circuitry triggering communicator to send an emergency signal
to the remote station, the remote station thereby being alerted
12 to heat indicative of fire.

Claim 16 (previously presented): A material handling apparatus as
2 in claim 15 wherein the electronic device has at least one supply
of power, the at least one supply of power being derived from a
4 solar battery positioned externally upon a surface of said
material handling apparatus.

Claim 17 (previously presented): A material handling apparatus as
2 in claim 15 wherein the thermographic instrumentation includes a
thermoscopic sensor, the sensor being exteriorly positioned to
4 monitor temperature variation.

Claim 18 (previously presented): A material handling apparatus as
2 in claim 15 wherein the electronic device is mounted upon a plate
for remote attachment to an external surface of the material
4 handling apparatus exposed to fire and the heat of fire.

Claims 19-36 (cancelled).

Claim 37 (previously presented): A fire resistant plastic pallet
2 formed of a fire resistant laminate comprising a non-intumescent
polymer layer and an intumescent plastic layer, said intumescent
4 plastic layer comprising:

greater than or equal to 65 wt. % high density polyethylene,

6 and

about 10 wt. % to about 35 wt. % intumescent additive
8 material selected from the group consisting of a gas-generating
foaming agent, a char-forming agent and combinations including at
10 least one of the foregoing materials.

Claim 38 (new): A fire resistant plastic pallet as set forth in
2 claim 37 in which:

said high density polyethylene is present in an amount of 65
4 wt. % to about 80 wt. %.

Claim 39 (new): A fire resistant plastic pallet as set forth in
2 claim 37 in which:

said intumescence additive material is present in an amount
4 of about 20 wt. % to about 35 wt. %.

Claim 40 (new): A fire resistant plastic pallet as set forth in
2 claim 37 in which:

said gas-generating foaming agent is selected from the group
4 consisting of ammonium dihydrogen phosphate, ammonium
polyphosphate, and combinations comprising at least one of the
6 foregoing materials.

Claim 41 (new): A fire resistant plastic pallet as set forth in
2 claim 37 in which:

said gas-generating foaming agent is selected from the group
4 consisting of hydrated alumina, hydrated magnesia, melamine, and
combinations comprising at least one of the foregoing materials.

Claim 42 (new): A fire resistant plastic pallet as set forth in
2 claim 37 in which:

said char forming agent is selected from the group
4 consisting of monopentaerythritol, dipentaerythritol, and
combinations comprising at least one of the foregoing materials.

Claim 43 (new): A fire resistant plastic pallet as set forth in
2 claim 37 in which:

said intumescence additive material further comprises
4 antimony oxide, zinc borate, and combinations comprising at least
one of the foregoing materials.

Claim 44 (new): A fire resistant plastic pallet as set forth in
2 claim 37 in which:

said non-intumescent layer has a thickness about 1.5 times
4 to 2.5 times a thickness of the intumescent plastic layer.

Claim 45 (new): A fire resistant plastic pallet formed of a fire
2 resistant laminate comprising a non-intumescent polymer layer and
an intumescent plastic layer, said intumescent plastic layer
4 comprising:

about 65 wt. % to about 80 wt. % high density polyethylene,
6 about 20 wt. % to about 35 wt. % intumescence additive
material,

8 said intumescence additive material includes a gas-
generating foaming agent, a char-forming agent, and a filler,

10 said gas-generating foaming agent is selected from the group
consisting of ammonium dihydrogen phosphate, ammonium
12 polyphosphate, hydrated alumina, hydrated magnesia, melamine, and
combinations including at least one of the foregoing materials,

14 said char forming agent is selected from the group
consisting of monopentaerythritol, dipentaerythritol, and
16 combinations including at least one of the foregoing materials,
and

18 said filler is selected from the group consisting of
antimony oxide, zinc borate, and combinations including at least
20 one of the foregoing materials.